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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 7565	
10/044,087	01/09/2002	Bryan K. Casper	42390P11940		
8791	7590 05/18/2005		EXAMINER		
	SOKOLOFF TAYLOR	JOSEPH, JAISON			
12400 WILSHIRE BOULEVARD SEVENTH FLOOR			ART UNIT	PAPER NUMBER	
LOS ANGEL	ES, CA 90025-1030	2634	2634		

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	No.	Applicant(s)			
		10/044,087		CASPER ET AL.			
		Examiner		Art Unit			
		Jaison Josep		2634			
Period fo	The MAILING DATE of this communica or Reply	tion appears on the co	over sheet with the co	orrespondence ad	ldress		
THE - External after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication of the reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute re to reply within the set or extended period for reply will reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	ATION. 17 CFR 1.136(a). In no event, cation. ays, a reply within the statutory ory period will apply and will ex, by statute, cause the applicat	however, may a reply be time y minimum of thirty (30) days pire SIX (6) MONTHS from t ion to become ABANDONED	ely filed will be considered time he mailing date of this c (35 U.S.C. § 133).			
Status		•					
1)⊠	Responsive to communication(s) filed	on <i>09 January 2002</i> .					
, —	This action is FINAL . 2b)⊠ This action is non-final.						
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1, 2, 5,12 and 17 is/are rejected. Claim(s) 3, 4, 6 - 11, 13 - 16, and 18 - 21 is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)	The specification is objected to by the E	Examiner.					
10)⊠	The drawing(s) filed on <u>09 January 200</u> Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to be	$\frac{12}{2}$ is/are: a) $\boxed{\square}$ accept on to the drawing(s) be the correction is required	neld in abeyance. See if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).		
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International See the attached detailed Office action for the certified copies of application from the International See the attached detailed Office action for the certified copies of application from the International See the attached detailed Office action for the certified copies of the certified copies of application from the International Copies of the certified copies of the priority do 3. Copies of the certified copies of the priority do 4. Copies of the certified copies of the priority do 5. Copies of the certified copies of the priority do 6. Copies of the certified copies of the priority do 7. Copies of the certified copies of the priority do 8. Copies of the certified copies of the priority do 9. Copies of the certified copies of the	ocuments have been recuments have been rethe priority document Il Bureau (PCT Rule 1	received. received in Applications s have been receive 17.2(a)).	on No ed in this National	Stage		
Attachmen				(DTO 442)			
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTC mation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date	O/SB/08) 5)	Interview Summary Paper No(s)/Mail Da Notice of Informal Pa	ite	O-152)		

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DETAILED ACTION

Priority

This application is indicated a foreign priority on an application filed in Japan (2001 – 13786) on January 22, 2001. Applicant has not acknowledged the filing of any foreign application in the Oath and declaration and the Office has not received a certified copy of foreign application. In order to claim the priority, applicant is required to submit a new Oath and Declaration and certified copy of the foreign priority.

Double Patenting

Claims 1 and 2 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 or claim 25 of U.S. Patent No. 6,621,323. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 1 on the patent recite a method of a driver driving data symbols into a transmission line while simultaneously driving plurality of nodes to another node, determining a difference between a signal level from the transmission line and a signal level from the other node and applying the difference to a signal input of a variable offset comparator. The claim 1 or claim 25 does not recite applying plurality of binary values to an offset control input of the comparator, to adjust the viable reference level prior to the comparator performing the comparison. However it is inherent that the reference values must loaded prior performing comparison.

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Regarding claim 2, which inherits the limitations of claim 1, further the claim 1 or claim 25 in the patent recite sampling a signal from the transmission line and the signal from the other node prior to determining the difference.

Claims 5 and 17 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 6 or claim 19 of U.S. Patent No. 6,621,323. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 8 recite a circuit comprising a first driver having an output to be coupled to transmission line, a second driver being coupled to receive the same sequence of outgoing data symbols, a subtraction circuit having a first input to be coupled to the transmission line and a second input to the output of the second driver, a comparator having an input coupled to an output of subtraction circuit, the comparator having a substantially variable offset that is controllable to represent a variable reference level; an output of comparator to provide a value that represents a comparison between a signal level at the comparator input and the variable reference level, a control level, and a control circuit having an output that is coupled to an offset control input of the comparator. The claim 6 or claim 19 does not recite the control circuit is to provide a first binary value that corrects for one of a mismatch between the first and second drivers and a mismatch in the subtraction circuit. However, it is inherent that a controller circuit is needed for generating a control signal.

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Regarding claim 12, claimed apparatus including the features corresponding to subject matter mentioned above in rejection of claim 5 is applicable hereto.

Claim 12 is rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claim 6 or claim 19 of U.S. Patent No. 6,621,323 in view of Rostoker et al (US Patent 5,715,274). Regarding claim 12, claimed apparatus including the features corresponding to subject matter mentioned above in rejection of claim 5 is applicable hereto. The claim 6 or 19 failed to mention a printed wiring board on a parallel bus is formed, an integrated circuit chip package being operatively installed on the board to communicate using the parallel bus, the package having an IC chip that includes a logic function section and an I/O section as an interface between the logic function section and the bus. However Rostoker et al teach a printed wiring board on a parallel bus is formed, an integrated circuit chip package being operatively installed on the board to communicate using the parallel bus, the package having an IC chip that includes a logic function section and an I/O section as an interface between the logic function section and the bus (see column 6, line 58 – column 7, line 5). Therefore it would be obvious to an ordinary skilled in the art at the time the invention was made to implement a digital serial interface having a low power requirement in an integrated circuit (see column 3, lines 3 - 4).

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Allowable Subject Matter

Claims 3, 4, 6 - 11, 13 - 16, and 18 - 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaison Joseph whose telephone number is (571) 272-6041. The examiner can normally be reached on M-F 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Jaison Joseph 05/05/05

> STEPHEN CHIN SUPERVISORY PATENT EXAMINE TECHNOLOGY CENTER 2600